

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6 9 8 0 0 5		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address ALASKAN COPPER WORKS P.O. Box 3546, Seattle, WA 98124 206 382-8379		24 hr. PAGER 206-643-7143		A. State Manifest Document Number			
4. Generator's Phone ( )		5. Transporter 1 Company Name MC NOTTINGHAM CO OF SO CAL		6. US EPA ID Number C A D 0 5 9 2 4 0 7 1 3		B. State Generator's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone (909) 627-3261			
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043		10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0		E. State Transporter's ID		F. Transporter's Phone			
				G. State Facility's ID		H. Facility's Phone 800-972-1955			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III		No. Type 224 D M		18665		P		D007	
b. <input type="checkbox"/>									
c. <input type="checkbox"/>									
d. <input type="checkbox"/>									
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") Wear gloves & goggles P.O. # M 11636									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Gerald A. Thompson				Signature <i>[Signature]</i>		Month Day Year 12 10 98			
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name JAY ROY RELPH				Signature <i>[Signature]</i>		Month Day Year 12 10 98			
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature		Month Day Year			
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name				Signature		Month Day Year			

# Material Safety Data Sheet

D007 Recyclable Material

Recycler's Facility Name and Site Address:

**World Resources Company**  
8113 West Sherman Street  
Phoenix, Arizona 85043  
Tel: 1-602-233-9166 Fax: 602-936-9164

Issued: 3/18/94

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire, or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,  
Call: **CHEMTREC 800-424-9300**  
(Use CHEMTREC Company Code "WRR")  
For calls from other countries call:  
**202-483-7616 Collect**

## Section 1

## PRODUCT - MATERIAL IDENTIFICATION

Environmental Protection Agency (EPA) Waste Classification: D007  
Generic Name: Chromium metal bearing sludge  
Chemical Family: Non-Ferrous metal particulates  
Synonym: Metallic Residues From High Frequency Burning Table

DOT Shipping Name: RQ, Hazardous Waste, Solid, n.o.s. (D007)  
DOT Hazard Class: 9; Packing Group: III  
DOT Identification Number: NA 3077  
DOT Emergency Response Guide 31 Applies

## Section 2

## HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology:
Aluminum	7429-90-5	0-5	10 mg/m <sup>3</sup>	No Data Available
Chromium	7440-47-3	0-15	0.5 mg/m <sup>3</sup>	2.75 mg/kg (Rat, Oral)
Copper	7440-50-8	0-10	1.0 mg/m <sup>3</sup>	0.35 mg/kg (Mouse, Oral)
Nickel	7440-02-0	0-10	1.0 mg/m <sup>3</sup>	No Data Available
Zinc	7440-66-6	0-5	none established	No Data Available

## Section 3

## PHYSICAL AND REACTIVITY DATA

Description: Moist, Sandy consistency  
Brown to Black colored  
Water Content 10-20% by weight  
Specific Gravity: 2.0 to 3.0  
Solubility: Insoluble in water

Density: 100 to 150 lbs/cu/ft  
Incompatible Reactivity: Extreme heat sources,  
Oxidants  
Vapor Pressure: Insignificant  
Stability: Avoid contact with acids, extreme heat

Polymerization: Will not occur  
Boiling Point: Above 2000°C  
Melting Point: Above 1000°C  
pH: 7.0 to 10.0  
Odor: Nil

## Section 4

## FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable, under normal conditions  
Special Firefighting Procedures: Dry Chemical  
Product Decomposition: ... (Due to Fire or Explosion): Hydrogen gas, ZnO (under extreme external heat)

Oxidation: Non-oxidizing  
Explosive: Non-explosive

NFPA  
Fire Diamond



## Section 5

## TOXICITY

Listed Carcinogen component: Chromium, Nickel Toxicology: See Sec. 2 (Chromium, Nickel) Route of Entry: Inhalation and Ingestion

## Section 6

## HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

## Section 7

## PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

## Section 8

## CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.  
Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.  
Hand Protection: Gloves recommended.

## Section 9

## GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 78005 Telephone: (206) 623-3800 Date: 7-8-98

Company Name and Address: Alaskan Copper Works 628 Hanford st. Seattle Wa 98134

Signature: [Signature]

AZF-WRC 3/94

AKC-0017681

## MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:  
Hazardous waste, solid, n.o.s. (D007)

1996  
NORTH AMERICAN  
EMERGENCY RESPONSE  
GUIDEBOOK

## TAKEN FROM GUIDE 171 OF THE 1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

### POTENTIAL HAZARDS

#### FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

#### HEALTH

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

### PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W00R").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

#### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

#### EVACUATION

##### Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

### EMERGENCY RESPONSE

#### FIRE

##### Small Fires

- Dry chemical, CO<sub>2</sub>, water spray or regular foam.

##### Large Fires:

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

##### Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

#### SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

##### Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

##### Small Spills

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

##### Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

#### FIRST AID

- Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

AZF WPC 9/1/78

# LAND DISPOSAL RESTRICTION NOTICE

(effective 5/1/97)

(A copy of this Notice must be retained by the generator for at least 5 years in conformance with 40 CFR §268.7(a)(7) (1996). This 5 year record retention mandate may be automatically extended under the regulation.)

**TO:** World Resources Company  
8113 West Sherman Street  
Phoenix, Arizona 85043-3000

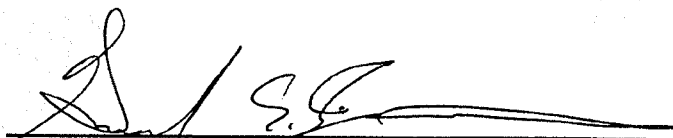
**FROM:** Alaskan Copper Works  
(Company)  
P.O. Box 3546, Seattle, WA 98124  
(Address)

**Manifest Number:** 98005

**Date of Shipment:** 7-8-98

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR §268.7 and is shown below:

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	Nonwastewater	40 CFR §268.40 (1996)

  
(Signature)  
GERALD A. Thompson  
(Typed/Printed Name)  
Enviro. Tech.  
(Title)